Week 4 (September 21-September 28)

Tools used:

Python

Goal:

Import Episode annotations into Elan (1,2,4 minutes)

Identify Episode Accuracy

Quantitative analysis of vocalization between each crying episode (max/median) duration of vocalization over each episode duration

Encrypt hardrive (email when done)

Objective: To qualitatively evaluate an episode. Accurately identify an episode by manually listening to crying episodes and deciding which episode length (in minutes) best suites a period of time when a baby is in “discomfort”. As an attempt to aid this qualitative analysis, include the density of “vocalization” annotation occurrences within a “crying” episode, to account for false system annotations, and to confirm that each “crying” annotation is indeed a correct label for an episode.

Purpose: To be able to capture a time frame of baby crying and to be able to catch and visualize through data how a mother responds and interacts with the baby.

Results:

1. Episode.py
   * Using the previous traversal of gathering gaps, created a new method called “density” that will calculate the total duration of “vocalization” annotations (or any other annotations if need be), the density which will simply be a percentage (duration of vocalization divided by total duration of time frame)
   * This “density” and other statistics will be exported to a csv file

**How to generate density file:**

Main Methods that will be called:

* Histogram()
* Labelannotations()
* Makeepisode()
* density()
* findDuration()